



# Recombinant Human SULT1A1 (N-6His)

<b>Catalog #</b>	EPT119
<b>Expression Host</b>	E.coli
<b>DESCRIPTION</b>	Recombinant Human Cytosolic Sulfotransferase Family 1A Member 1 is produced by our E.coli expression system and the target gene encoding Met1-Leu295 is expressed with a 6His tag at the N-terminus.
<b>Accession</b>	AAH00923.1
<b>Synonyms</b>	Sulfotransferase 1A1; ST1A1; Aryl sulfotransferase 1; HAST1/HAST2; Phenol Sulfotransferase 1; Phenol-Sulfating Phenol Sulfotransferase 1; P-PST 1; ST1A3; Thermostable Phenol Sulfotransferase; Ts-PST; SULT1A1; STP; STP1; OK/SW-cl.88
<b>Mol Mass</b>	35.6 KDa
<b>AP Mol Mass</b>	32 KDa, reducing conditions
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE.





### **Endotoxin**

Less than 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL test.

### **FORMULATION**

Supplied as a 0.2  $\mu$  m filtered solution of 20mM Tris-HCl, 150mM NaCl, 2mM DTT, pH 8.0.

### **RECONSTITUTION**

### **SHIPPING**

The product is shipped on dry ice/polar packs.

Upon receipt, store it immediately at the temperature listed below.

### **STORAGE**

Store at  $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt.

Store at  $\leq -70^{\circ}\text{C}$ , stable for 3 months under sterile conditions after opening.

Please minimize freeze-thaw cycles.

### **BACKGROUND**

Sulfotransferase 1A1 (SULT1A1) is a cytosolic sulfotransferases that is expressed in the liver, lung, adrenal, brain, platelets, and skin. SULT1A1 is a phenol sulfotransferases with thermostable enzyme activity. SULT1A1 utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of catecholamines, phenolic drugs and neurotransmitters. It is responsible for the sulfonation and activation of minoxidil. SULT1A1 mediates the metabolic activation of carcinogenic

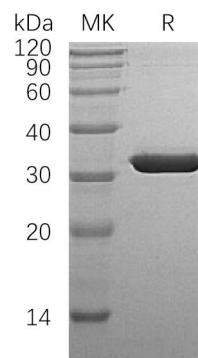




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N-hydroxyarylamines to DNA binding products and could so participate as modulating factor of cancer risk.

## SDS-PAGE



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